

1. 10 less than 6 times a number is 50. What is the number?
- (A) 8
(B) 9
(C) 10
(D) 7
(E) 15

Call the number X.

$$6X - 10 = 50$$

Now add 10 to both sides of the equation.

$$\begin{array}{r} 6X - 10 = 50 \\ +10 = +10 \\ \hline 6X = 60 \end{array}$$

Now divide both sides of the equation by 6.

$$\frac{6X}{6} = \frac{60}{6}$$

$$\mathbf{X = 10}$$

2. 5 more than 7 times a number is 40. What is the number?
- (A) 5
(B) 6
(C) 7
(D) 2
(E) 3

Call the number X.

$$7X + 5 = 40$$

Now subtract 5 from both sides of the equation.

$$\begin{array}{r} 7X + 5 = 40 \\ -5 = -5 \\ \hline 7X = 35 \end{array}$$

Now divide both sides of the equation by 7.

$$\frac{7X}{7} = \frac{35}{7}$$

$$\mathbf{X = 5}$$

3. 12 less than 8 times a number is 84. What is the number?

- (A) 8
- (B) 9
- (C) 10
- (D) 15
- (E) 12

Call the number X.

$$8X - 12 = 84$$

Now add 12 to both sides of the equation.

$$\begin{array}{r} 8X - 12 = 84 \\ +12 = +12 \\ \hline 8X = 96 \end{array}$$

Now divide both sides of the equation by 8.

$$\frac{8X}{8} = \frac{96}{8}$$

$$\mathbf{X = 12}$$

4. 8 more than 3 times a number is 26. What is the number?

- (A) 5
- (B) 6
- (C) 7
- (D) 2
- (E) 3

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Call the number X.

$$3X + 8 = 26$$

Now subtract 8 from both sides of the equation.

$$3X + 8 = 26$$

$$\underline{-8 = -8}$$

$$3X = 18$$

Now divide both sides of the equation by 3.

$$\frac{3X}{3} = \frac{18}{3}$$

$$\mathbf{X = 6}$$